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RAW SEQUENCE LISTING DATE: 04/11/2002
PATENT APPLICATION: US/10/082,902 TIME: 10:01:08

Input Set : N:\CrF3\RULE60\10082902.raw
Output Set: N:\CRF3\04112002\J082902.raw

ANT: Ballinger, Dennis G.
mery, Julie R.

OF INVENTION: Growth Factor Antagonist Materials and Methods
ERENCE: 28110/35878

T APPLICATION NUMBER: 10/082,902
T FILING DATE: 2002-02-26
APPLICATION NUMBER: US/09/370,398
FILING DATE: 1998-08-06
OF SEQ ID NOS: 13
RE: PatentIn Ver. 2.0

NO: 1
: 1662
DNA
SM: Homo sapiens
E:
KEY: CDS
DN: (211)..(1107)
CE: 1

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ccga ccggcgctctg cgactacagc ggcggctaac ctgccccggc ttcaaggattt 120
acgt gggcgatgc ttgtgaccct gcagctcctc aaaggcccct agaaggctgt 180
gtac agtccaggac ctccagcccc atg gag ccc ccg atc cca cag agc 234
Met Glu Pro Pro Ile Pro Gln Ser
1 5
ttg act ccc aac tca gtc atg gtc cag ccc ctt ctt gac agc 282
Leu Thr Pro Asn Ser Val Met Val Gln Pro Leu Leu Asp Ser
15 20
tcc cac agc cgg ctc cag cac cca ctc acc atc cta ccc att 330
Ser His Ser Arg Leu Gln His Pro Leu Thr Ile Leu Pro Ile
30 35 40
gtg aag acc agc cat gtg gag aat gac tac ata gac aac cct 378
Val Lys Thr Ser His Val Glu Asn Asp Tyr Ile Asp Asn Pro
45 50 55
gcc ctg acc acc ggc cca aag cgg acc cgg ggc ggg gcc cca 426
Ala Leu Thr Thr Gly Pro Lys Arg Thr Arg Gly Gly Ala Pro
60 65 70
gcc ccg acg ccc gcc cgc tgt gac cag gat gtc acc cac cat 474
Ala Pro Thr Pro Ala Arg Cys Asp Gln Asp Val Thr His His
75 80 85
tcc ttc agc ggg cgc ccc agc tct gtg agc agc agc agc agc 522
Ser Phe Ser Gly Arg Pro Ser Ser Val Ser Ser Ser Ser
95 100
tct gac caa cgg ctc tta gac cac atg gca cca cca ccc gta 570

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49	Thr Ser Ser Asp Gln Arg Leu Leu Asp His Met Ala Pro Pro Pro Val	
50	105 110 115 120	
51	gct gac cag gcc tca cca agg gct gtg cgc atc cag ccc aag gtg gtc 618	
52	Ala Asp Gln Ala Ser Pro Arg Ala Val Arg Ile Gln Pro Lys Val Val	
53	125 130 135	
54	cac tgc cag ccg ctg gac ctc aag ggc ccg gcg gtc cca ccc gag ctg 666	
55	His Cys Gln Pro Leu Asp Leu Lys Gly Pro Ala Val Pro Pro Glu Leu	
56	140 145 150	
57	gac aag cac ttc ttg ctg tgc gag gcc tgt ggg aag tgt aaa tgc aag 714	
58	Asp Lys His Phe Leu Leu Cys Glu Ala Cys Gly Lys Cys Lys Cys Lys	
59	155 160 165	
60	gag tgt gca tcc ccc cgg acg ttg cct tcc tgc tgg gtc tgc aac cag 762	
61	Glu Cys Ala Ser Pro Arg Thr Leu Pro Ser Cys Trp Val Cys Asn Gln	
62	170 175 180	
63	gag tgc ctg tgc tca gcc cag act ctg gtc aac tat ggc acg tgc atg 810	
64	Glu Cys Leu Cys Ser Ala Gln Thr Leu Val Asn Tyr Gly Thr Cys Met	
65	185 190 195 200	
66	tgt ttg gtg cag ggc atc ttc tac cac tgc acg aat gag gac gat gag 858	
67	Cys Leu Val Gln Gly Ile Phe Tyr His Cys Thr Asn Glu Asp Asp Glu	
68	205 210 215	
69	ggc tcc tgc gct gac cac ccc tgc tcc tgc tcc cgc tcc aac tgc tgc 906	
70	Gly Ser Cys Ala Asp His Pro Cys Ser Cys Ser Arg Ser Asn Cys Cys	
71	220 225 230	
72	gcc cgc tgg tcc ttc atg ggt gct ctc tcc gtg gtg ctg ccc tgc ctg 954	
73	Ala Arg Trp Ser Phe Met Gly Ala Leu Ser Val Val Leu Pro Cys Leu	
74	235 240 245	
75	ctc tgc tac ctg cct gcc acc ggc tgc gtg aag ctg gcc cag cgt ggc 1002	
76	Leu Cys Tyr Leu Pro Ala Thr Gly Cys Val Lys Leu Ala Gln Arg Gly	
77	250 255 260	
78	tac gac cgt ctg cgc cgc cct ggt tgc cgc tgc aag cac acg aac agc 1050	
79	Tyr Asp Arg Leu Arg Arg Pro Gly Cys Arg Cys Lys His Thr Asn Ser	
80	265 270 275 280	
81	gtc atc tgc aaa gca gcc agc ggg gat gcc aag acc agc agg ccc gac 1098	
82	Val Ile Cys Lys Ala Ala Ser Gly Asp Ala Lys Thr Ser Arg Pro Asp	
83	285 290 295	
84	aag cct ttc tgacagttt gtcgaagcc ccagtgcct gcctggaaac 1147	
85	Lys Pro Phe	
87	ctgggtctct tctgacatct aagaagactg cagcaaggc agagggtta gcctcctgag 1207	
88	gctgacattt ctatctgcc cactccctac ccccaacttc gaaaaataca gagaccacca 1267	
89	ccacgtaccc ttttccccc aagatgtga agaagcactt tggggctttt tttcagggtc 1327	
90	ctgaaactt gtgtcaaaca gacaatgcag gggcagggtg tgggtttgggg gaaaattttt 1387	
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93	tcttggcac tcacaggagc tagctgcctg ggaggaattt ctaactgagt accagggtag 1567	
94	ctttaaagaa gacccttggaa gtcttctata ccttcttctc ctccccatc tcactccacc 1627	
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98	<211> LENGTH: 299	
99	<212> TYPE: PRT	

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Input Set : N:\Crf3\RULE60\10082902.raw
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100 <213> ORGANISM: Homo sapiens
 101 <400> SEQUENCE: 2
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 103 Met Val Gln Pro Leu Leu Asp Ser Arg Met Ser His Ser Arg Leu Gln
 20 25 30
 104 His Pro Leu Thr Ile Leu Pro Ile Asp Gln Val Lys Thr Ser His Val
 35 40 45
 105 Glu Asn Asp Tyr Ile Asp Asn Pro Ser Leu Ala Leu Thr Thr Gly Pro
 50 55 60
 106 Lys Arg Thr Arg Gly Gly Ala Pro Glu Leu Ala Pro Thr Pro Ala Arg
 65 70 75 80
 107 Cys Asp Gln Asp Val Thr His His Trp Ile Ser Phe Ser Gly Arg Pro
 85 90 95
 108 Ser Ser Val Ser Ser Ser Ser Thr Ser Ser Asp Gln Arg Leu Leu
 100 105 110
 109 Asp His Met Ala Pro Pro Pro Val Ala Asp Gln Ala Ser Pro Arg Ala
 115 120 125
 110 Val Arg Ile Gln Pro Lys Val Val His Cys Gln Pro Leu Asp Leu Lys
 130 135 140
 111 Gly Pro Ala Val Pro Pro Glu Leu Asp Lys His Phe Leu Leu Cys Glu
 145 150 155 160
 112 Ala Cys Gly Lys Cys Lys Cys Lys Glu Cys Ala Ser Pro Arg Thr Leu
 165 170 175
 113 Pro Ser Cys Trp Val Cys Asn Gln Glu Cys Leu Cys Ser Ala Gln Thr
 180 185 190
 114 Leu Val Asn Tyr Gly Thr Cys Met Cys Leu Val Gln Gly Ile Phe Tyr
 195 200 205
 115 His Cys Thr Asn Glu Asp Asp Glu Gly Ser Cys Ala Asp His Pro Cys
 210 215 220
 116 Ser Cys Ser Arg Ser Asn Cys Cys Ala Arg Trp Ser Phe Met Gly Ala
 225 230 235 240
 117 Leu Ser Val Val Leu Pro Cys Leu Leu Cys Tyr Leu Pro Ala Thr Gly
 245 250 255
 118 Cys Val Lys Leu Ala Gln Arg Gly Tyr Asp Arg Leu Arg Arg Pro Gly
 260 265 270
 119 Cys Arg Cys Lys His Thr Asn Ser Val Ile Cys Lys Ala Ala Ser Gly
 275 280 285
 120 Asp Ala Lys Thr Ser Arg Pro Asp Lys Pro Phe
 290 295
 121 <210> SEQ ID NO: 3
 122 <211> LENGTH: 315
 123 <212> TYPE: PRT
 124 <213> ORGANISM: Homo sapiens
 125 <400> SEQUENCE: 3
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 127 Thr Pro Arg Asp Gly Gly Arg Gln Arg Gly Glu Pro Asp Pro Arg Asp
 20 25 30

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150 Ala Leu Thr Gln Gln Val His Val Leu Ser Leu Asp Gln Ile Arg Ala
 151 35 40 45
 152 Ile Arg Asn Thr Asn Glu Tyr Thr Glu Gly Pro Thr Val Val Pro Arg
 153 50 55 60
 154 Pro Gly Leu Lys Pro Ala Pro Arg Pro Ser Thr Gln His Lys His Glu
 155 65 70 75 80
 156 Arg Leu His Gly Leu Pro Glu His Arg Gln Pro Pro Arg Leu Gln His
 157 85 90 95
 158 Ser Gln Val His Ser Ser Ala Arg Ala Pro Leu Ser Arg Ser Ile Ser
 159 100 105 110
 160 Thr Val Ser Ser Gly Ser Arg Ser Ser Thr Arg Thr Ser Thr Ser Ser
 161 115 120 125
 162 Ser Ser Ser Glu Gln Arg Leu Leu Gly Ser Ser Phe Ser Ser Gly Pro
 163 130 135 140
 164 Val Ala Asp Gly Ile Ile Arg Val Gln Pro Lys Ser Glu Leu Lys Pro
 165 145 150 155 160
 166 Gly Glu Leu Lys Pro Leu Ser Lys Glu Asp Leu Gly Leu His Ala Tyr
 167 165 170 175
 168 Arg Cys Glu Asp Cys Gly Lys Cys Lys Cys Lys Glu Cys Thr Tyr Pro
 169 180 185 190
 170 Arg Pro Leu Pro Ser Asp Trp Ile Cys Asp Lys Gln Cys Leu Cys Ser
 171 195 200 205
 172 Ala Gln Asn Val Ile Asp Tyr Gly Thr Cys Val Cys Cys Val Lys Gly
 173 210 215 220
 174 Leu Phe Tyr His Cys Ser Asn Asp Asp Glu Asp Asn Cys Ala Asp Asn
 175 225 230 235 240
 176 Pro Cys Ser Cys Ser Gln Ser His Cys Cys Thr Arg Trp Ser Ala Met
 177 245 250 255
 178 Gly Val Met Ser Leu Phe Leu Pro Cys Leu Trp Cys Tyr Leu Pro Ala
 179 260 265 270
 180 Lys Gly Cys Leu Lys Leu Cys Gln Gly Cys Tyr Asp Arg Val Asn Arg
 181 275 280 285
 182 Pro Gly Cys Arg Cys Lys Asn Ser Asn Thr Val Cys Cys Lys Val Pro
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 184 Thr Val Pro Pro Arg Asn Phe Glu Lys Pro Thr
 185 305 310 315
 187 <210> SEQ ID NO: 4
 188 <211> LENGTH: 139
 189 <212> TYPE: PRT
 190 <213> ORGANISM: Homo sapiens
 191 <400> SEQUENCE: 4
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 193 1 5 10 15
 194 Thr Leu Pro Ser Cys Leu Ala Cys Asn Arg Gln Cys Leu Cys Ser Ala
 195 20 25 30
 196 Glu Ser Met Val Glu Tyr Gly Thr Cys Met Cys Leu Val Lys Gly Ile
 197 35 40 45
 198 Phe Tyr His Cys Ser Asn Asp Asp Glu Gly Asp Ser Tyr Ser Asp Asn
 199 50 55 60

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200 Pro Cys Ser Cys Ser Gln Ser His Cys Cys Ser Arg Tyr Leu Cys Met
201      65          70          75          80
202 Gly Ala Met Ser Leu Phe Leu Pro Cys Leu Leu Cys Tyr Pro Pro Ala
203           85          90          95
204 Lys Gly Cys Leu Lys Leu Cys Arg Arg Cys Tyr Asp Trp Ile His Arg
205           100         105         110
206 Pro Gly Cys Arg Cys Lys Asn Ser Asn Thr Val Tyr Cys Lys Leu Glu
207           115         120         125
208 Ser Cys Pro Ser Arg Gly Gln Gly Lys Pro Ser
209           130         135
211 <210> SEQ ID NO: 5
212 <211> LENGTH: 300
213 <212> TYPE: PRT
214 <213> ORGANISM: Mus musculus
215 <400> SEQUENCE: 5
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218 Val Met Val Gln Pro Leu Leu Asp Ser Arg Ala Pro His Ser Arg Leu
219           20         25         30
220 Gln His Pro Leu Thr Ile Leu Pro Ile Asp Gln Met Lys Thr Ser His
221           35         40         45
222 Val Glu Asn Asp Tyr Ile Asp Asn Pro Ser Leu Ala Pro Ala Thr Gly
223           50         55         60
224 Pro Lys Arg Pro Arg Gly Gly Pro Pro Glu Leu Ala Pro Thr Pro Ala
225           65         70         75         80
226 Arg Cys Asp Gln Asp Ile Thr His His Trp Ile Ser Phe Ser Gly Arg
227           85         90         95
228 Pro Ser Ser Val Ser Ser Ser Ser Thr Ser Ser Asp Gln Arg Leu
229           100        105        110
230 Leu Asp His Met Ala Pro Pro Val Ala Glu Gln Ala Ser Pro Arg
231           115        120        125
232 Ala Val Arg Leu Gln Pro Lys Val Val His Cys Lys Pro Leu Asp Leu
233           130        135        140
234 Lys Gly Pro Thr Ala Pro Pro Glu Leu Asp Lys His Phe Leu Leu Cys
235           145        150        155        160
236 Glu Ala Cys Gly Lys Cys Lys Cys Lys Glu Cys Ala Ser Pro Arg Thr
237           165        170        175
238 Leu Pro Ser Cys Trp Val Cys Asn Gln Glu Cys Leu Cys Ser Ala Gln
239           180        185        190
240 Thr Leu Val Asn Tyr Gly Thr Cys Met Cys Leu Val Gln Gly Ile Phe
241           195        200        205
242 Tyr His Cys Thr Asn Glu Asp Asp Glu Gly Ser Cys Ala Asp His Pro
243           210        215        220
244 Cys Ser Cys Ser Gly Ser Asn Cys Cys Ala Arg Trp Ser Phe Met Gly
245           225        230        235        240
246 Ala Leu Ser Val Val Leu Pro Cys Leu Leu Cys Tyr Leu Pro Ala Thr
247           245        250        255
248 Gly Cys Val Lys Leu Ala Gln Arg Gly Tyr Asp Arg Leu Arg Arg Pro
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VERIFICATION SUMMARY

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